

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1. (currently amended) A laminate, ~~characterized in that it comprises the following features:~~ comprising:

- at least one layer comprising a resistance element [[1]]; and

- ~~at least one~~ a first layer formed of a [[fibre]] fiber reinforced thermoplastic mat [[2]];

~~in which the wherein said~~ resistance element [[1]] and [[the]] said [[fibre]] fiber reinforced thermoplastic mat ~~(2)~~ are laminated under pressure, preferably by vacuum moulding, and ~~that the thermoplastic is melted under heat and then cooled form a lamination without any additional layer therebetween~~ so that the resistance element is completely or partly enclosed by thermoplastic and consolidated as a laminate.

2. (currently amended) ~~Laminate~~ The laminate according to claim 1, wherein [[the]] said resistance element [[1]] and ~~the fibre~~ said fiber reinforced thermoplastic layer [[2]] adhere directly to each other ~~during the moulding process~~.

3. (currently amended) ~~Laminate~~ The laminate according to claim 1, wherein the laminate comprises ~~at least two layers~~ ~~(2,3)~~ a second layer of [[fibre]] fiber reinforced thermoplastic,

~~and in which the~~ said resistance element ~~(1)~~ is being arranged between ~~the two fibre~~ said first and second fiber reinforced thermoplastic layers  $[(2,3)]$ .

4. (currently amended) ~~Laminate~~ The laminate according to claim  $[[1]]$  3, wherein said laminate further comprises at least one sandwich core  $[(4)]$  and ~~at least one additional fibre~~ a third fiber reinforced thermoplastic layer ~~(5)~~, ~~so as to form a structural element.~~

5. (currently amended) ~~Laminate~~ The laminate according to claim 1, wherein ~~the mould comprises~~ there is at least one plate  $[(6)]$  which forms a base for the various layers in the laminate during ~~the moulding~~ a molding process.

6. (currently amended) ~~Laminate~~ The laminate according to claim 5, wherein the material in the plate  $[(6)]$  is metal, a carbon composite or ~~another~~ material or combination of materials which are thermally conductive.

7. (currently amended) ~~Laminate~~ The laminate according to claim 5, wherein the first  $[[fibre]]$  fiber reinforced thermoplastic layer  $[(2)]$ , the resistance element  $[(1)]$  and the second  $[[fibre]]$  fiber reinforced thermoplastic layer are arranged on the plate  $[(6)]$  during the ~~moulding~~ molding process.

8. (currently amended) ~~Laminate~~ The laminate according to claim 5, wherein the plate ~~[[6]]~~ forms a part of the finished laminate.

9. (currently amended) ~~Laminate~~ The laminate according to claim 1, wherein the resistance element ~~[[1]]~~ is arranged for emitting heat energy ~~so that the~~ during a melting process ~~is supplied with heat from within.~~

10. (currently amended) ~~Laminate~~ The laminate according to claim 1, wherein the resistance element ~~[[1]]~~ comprises at least one elongate resistive wire ~~[[10]]~~ and wherein ~~[[each]]~~ said at least one resistive wire is provided with two terminals ~~(20, 21)~~ for connection to electric supply cables ~~(30, 31)~~.

11. (currently amended) ~~Laminate~~ The laminate according to claim 10, wherein said at least one resistive wire ~~[[10]]~~ is arranged in a pattern ~~on an area.~~

12. (currently amended) ~~Laminate~~ The laminate according to claim 10, wherein ~~[[the]]~~ said at least one resistive wire ~~[[10]]~~ has been imprinted or etched directly onto the first thermoplastic layer ~~(2), which preferably is a partly consolidated fibre reinforced thermoplastic textile.~~

13. (currently amended) ~~Laminate~~ The laminate according to claim ~~[[1]]~~ 10, wherein the electric supply cables ~~(30, 31)~~ extend outside the laminate.

14. (currently amended) ~~Laminate~~ The laminate according to claim 1, wherein at least one temperature sensor ~~[(40)]~~ is arranged within the laminate.

15. (currently amended) ~~Laminate~~ The laminate according to claim ~~[(10)]~~ 14, wherein the temperature sensor is arranged within the laminate and close to the resistive wire ~~[(10)]~~, so that ~~[(the)]~~ a melting process which is supplied with heat from the resistance element ~~[(1)]~~ may be controlled with regard to the temperature.

16. (currently amended) ~~Laminate~~ The laminate according to claim 1, in which the resistance element is ~~present as~~ a silk screen imprinted or photo-engraved resistance element ~~[(1)]~~ comprising a resistive wire ~~[(10)]~~ in an insulating matrix ~~[(50)]~~.

17. (currently amended) ~~Laminate~~ The laminate according to claim 1, wherein the ~~[(fibre)]~~ first fiber reinforced thermoplastic mat includes non-conductive reinforcement filaments ~~(26), preferably of glass fibre filaments.~~

18. (currently amended) ~~Laminate~~ The laminate according to claim 9, wherein ~~[(the)]~~ said resistance element ~~[(1)]~~ comprises at least one elongate resistive wire ~~[(10)]~~ arranged in a pattern which forms a ~~preferably~~ closed electric circuit, and in which the resistance element is arranged for external supply of electric energy via induction.

19. (withdrawn/currently amended) A method for manufacturing a fibre reinforced laminated resistance element, ~~characterized in that it comprises~~ comprising the following steps:

- arranging at least one resistance element  $[(1)]$  together with at least layer of a mat  $[(2)]$  of reinforcement fibres  $[(25)]$  and thermoplastic fibres  $[(26)]$  in a mould;
- moulding the resistance element  $[(1)]$  together with the fibre reinforced thermoplastic layer  $[(2)]$  under heat so that the thermoplastic fibres  $[(26)]$  melt and fill the fibre reinforcement  $[(25)]$ , and under pressure, preferably by vacuum moulding, so that they together form the fibre reinforced laminated resistance element.

20. (withdrawn/currently amended) ~~Method~~ The method according to claim 19, which further comprises the following step:

- supplying energy to the moulding process completely or partly by means of the resistance element  $[(1)]$  itself which is to be moulded into the laminate.

21. (withdrawn/currently amended) ~~Method~~ The method according to claim 19, wherein the resistance element  $[(1)]$  is formed by etching of a metal film onto a layer comprising thermoplastic.

22. (withdrawn/currently amended) ~~Method~~ The method according to claim 19, wherein the resistance element  $[(1)]$  is formed by etching of a metal film onto a glass fibre reinforced layer of thermoplastic.

23. (withdrawn/currently amended) ~~Method~~ The method according to claim 19, wherein the mould comprises at least one plate which forms a base for the various layers in the laminate by moulding.

24. (withdrawn/currently amended) ~~Method~~ The method according to claim 23, wherein the plate is integrated in the laminate during the moulding process so as to form a part of the laminate.

25. (withdrawn/previously presented) A laminate produced by the method of claim 19.